5th and Final Bill

Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(For Other Works) Head of Account:-P3106 Nagarathana works

Job Number : 007-16-000031 21224

Division: Byatarayanapura Division Sub division: Kodigehalli

Bill Received No. ……..Date…… Cash Book Voucher No…… dated……

Scheduled Docted No.

Name of Work:- Improvements to Roads, Drains and Drilling Borwells in ward no. 07 & 08 of Kodigehalli Sub-Division of Byatarayanapura Division, under P3106 Nagarathana works.

Name of Contractor and Full Address: **G.N Ramesh, # 01, 3rd main road, 7th cross, Maruthi Extn, Bnagalore- 560 021.**

Reference to Work order No. BBMP/EE/BTP/WO/74/2017-18, Dated: 01-06-2017

494375 494389

Certified that the measurement were taken by me on 16-05-19 and recorded of pages …… to …… of 4944/17-18

Contractor : Officer-In-Charge of work

Certified that the measurements were taken by me on 25/3/19 and are found correct and the work is satisfactorily

Certified that the quantities of materials shown in column 3 of Account II have been actually brought to site of the work

II Memorandum of Payment Sub-Division Officer

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

1) Total value of work done or supplies made as per account within	Total Rs 5,93,53,168-00
2) Deduct amount to be held in reserve being……percent Rs……	4th & Part-R. 5,62,53,836-00
3) Deduct amount to be held in Balance	
4) Deduct Payments:	5th & Final Rs: 30,99,332-00
a) Amount of previous payment as in the office Cash Book Voucher No……Dated ……S.D No……	IT - 30993-00
Amount adjusted towards cash advance recovery of	Cess - 30993-00
b) Payments cost store or other materials supplied	CBF - 3099-00
Now made recovery of amount creditable to this/other work	LR - 49279-00
Amount paid on this bill Cheque/Cash	CGST - 35708-00
5) Balance being unpaid value of work done held in reserve	SGST - 35708-00
6) Deduct cash advance made on the Office Cash Book Voucher No…… dated…… less adjustments	Adv. 185780-00
7) Net amount due to or from contractor	Chqn. 29,13,552-00
Unadjusted items	
8) Advance to contractor for materials brought to site (as detailed) with Value of Government materials supplied	

Contractor's Signature

Received Rs.

……

by cash and by adjustment of Payment as per memorandum.

Witnesses:

1

2

Dated…… Signature of Contractor

Stamp

Paid by me by cheque No……dated……

Cast Rs……dated……

Initials of Officer making payment

Executive Engineer

Rs: 3099332-00 (For use in the Office)

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ಗಳನ್ನು ಪಾಸು ಮಾಡಿದೆ : ಇದರಲ್ಲಿ ರೂ 185780-00

ಹೊಂದಾಣಿಕೆ ಮಾಡಿಕೊಂಡು ಉಳಿದ ಮೊಬಲಗು 29,13,552-00

Rs: Twenty nine Lakh thirteen thousand five hundred fifty two only

ಚೆಕ್ ಮುಖಾಂತರ ನೀಡಲಾಗಿದೆ

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20/3

BRUHATH BANGALORE MAHANAGARA PALIKE

Road Infrastructure - Byatarayanapura Division

Name of Work: Improvements to Roads, Drains and Drilling Borwells in ward no. 07 & 08 of Kodigehalli Sub-Division of Byatarayanapura Division, under P3106 Nagarathana works.

Name of Agency :- Sri. G.N Ramesh

Job Code :- 007-16-000031 21224

Bill No : 5th and Final Bill

Item No	Description of Item of Work	Unit	BOQ/EIRL/ WORKSLIP	Rate	Previous Measurement		Present Measurement		Total Up do date		Remar
					Qty	Amount	Qty	Amount	Qty	Amount	
1	Removing B.S.Slab Drain and stacking Page NO 25 / Item No 5.32/PWD SR 2015-16.	Sqm	3121.33	70.00	3101.70	217119.00	0.00	0.00	3101.70	217119.00	
2	Refixing stone slabs of drains and pointing in CM (1:3) Page NO 25 / Item No 5.33/PWD SR 2015-16.	Sqm	3116.83 3116.33	86.00	3097.20	266359.20	0.00	0.00	3097.20	266359.20	
3	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixid curing etc.., complete - 10.0cms thick (Page NO 28 / Item No 5.31.1 of PW, P&IWTD SR 2015-16).	Cum	2244.44	874.00	1904.85	1664838.90	0.00	0.00	1904.85	1664838.90	
4	Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH chapter 3. Page No. 141/ Item No. 19.1/PWD SR 2015-16.	Cum	5833.97	91.00	5407.54	492086.14	69.12	6289.92	5476.66	498376.06	
5	Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materialks with lead of 100m, sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bond macadam specifications including cost of all labour, HOM of machineries complete as per specifications. MORTH chapter 5, No. 160/ Item No 21.3 /PWD SR 2015-16).	sqm	20416.87	97.00	20011.42	1941107.74	403.50	39139.50	20414.92	1980247.24	

					Rate			Qty	Amt.			
6	**Proviidng and laying, spreading and compacting graded stones aggregate to Wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per MORTH specifications. No.406, Page no. 157/ item no. 20.18/ PWD SR 2015-16**	Cum	4898.74		1885.00	4687.95	8836785.75	188.25	354851.25	4876.20	9191637.00	
7	**Cleaning the existing WBM road surface including removing of binding materials and other foreign matter with wire bushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / compressed air to recieve bituminous treatment including cost of all materials, labour, HOM of machineries, curing complete as per specifications. specification no. 500-1.3 P. 160/ Item No 21.1 /PWD SR 2015-16.cation and direction of the engineer-in-charge of the work**	sqm	649.72		14.00	509.28	7129.92	0.00	0.00	509.28	7129.92	
8	**Proviidng and applying primer coat for surfaces of medium porosity like cement stabilized soil base @ 1.10 Kg/sqmt over prepared surface with S.S bitumen emulsion using bitumen tanker fitted with spray set (excluding cleaning of road surface) including cost of all material, labour HOM of machineries complete as per specifications. MORTH specification No. 502, Page No. 160/ Item No. 21.5/ PWD SR 2015-16.**	Sqm	21601.37		77.00	20450.47	1574686.19	753.00	57981.00	21203.47	1632667.19	
9	**Cleaning the Existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to recieve bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. (P. 160/ I.No. 21.2/ PWD SR 2015-16)**	sqm	Upto 125%	22087.50	3.00	24063.16	84559.05	0.00	0.00	24063.16	84559.05	
			Above 125%	3816.55	3.66			0.00	0.00			

10	**Providing and applying tack coat using 80/100 grade nitumrn (VG 10) on prepared black topped surfaces at 2.5 kg per 10sqm, heating bitumen in boiler fitted witth spray set (excluding cleaning of road surface) including cost of all materials, labours , HOM of machineries complete as per specifications.(Page no. 160/ Item no. 21.7/ PWD SR 2015-16)**	sqm	Upto 125%	22087.50	16.00	34584.44	512022.33	0.00	0.00	34584.44	512022.33	
			Above 125%	14498.20	14.63			0.00	0.00			
11	**Providing and laying bituminous Macadam on prepared surface with crushed coarse aggregates as per mix formula for base/ binding course including loading of aggregates with FE loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixed material in tipper to paver and mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer/ tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. using 100-120 TPH capacity H.M.P. with sensor paver Gr-II (50mm to 75mm)with 3.3%. (Item No. 21.11.2, Page No. 161, PWD SR 2015-16).**	Cum	Upto 125%	130.65	6000.00	622.47	4270751.34	0.00	0.00	660.12	4537678.17	
			Above 125%	537.41	7089.69			37.65	266926.83			
12	**Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher with required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 509 complete in all respects complete as per specifications.using 40-60 TPH capacity H.M.P. with sensor paver Gr-II (30mm to 45mm)with 6% CRMB-55. (Item No. 21.23.6, Page No. 164, PWD SR 2015-16).**	cum	Upto 125%	1769.40	12530.00	1884.43	23508349.84	0.00	0.00	1914.55	23858637.31	
			Above 125%	184.29	11629.73			30.12	350287.47			

13	**Lead for Disposal of debris shall be payable at carriage rates by mechanical means including loading and unloading from 0.00 to 2.00km (Page no. 133 of PWDSR 2015-16).**	Sqm	5607.32		86.00	5304.64	456199.04	302.68	26030.48	5607.32	482229.52	
14	**Earth work in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road, drains & trenches of pipeline and cables) and removing the excavated stuff to to a distance not xceeding 50m and lift upto 1.5m excavated surface levelled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications. KBS 2.1 (a)/2.3.1 No. 5/ Item No. 2.1/PWD SR 2015-16.**	cum	Upto 125%	74.06	175.00	271.55	50750.21	0.00	0.00	324.09	60803.74	
			Above 125%	260.59	191.35			52.54	10053.53			
15	**Providing and laying heavy duty cobble stones 75 mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50 mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of snad underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. (PWDSR 2015-16, P. 101, I. 14.7)**	Sqm	259.80		1115.00	0.00	0.00	259.80	289677.00	259.80	289677.00	

17	**Providing Children Play Two Seater Standard SWing Equipment: This sWing' consist of 2 Nos. seats of solid metal seats powder coated of Size-500mmx 250mm x 16 SWG supported by MS chains of Length 1.8mtrs, each seat is suspended by 1 line of chain. The chains are supported by circular housingswith bearing from which the chain in suspended. The beam is of 50mm MS tAt class pipe. Size of MS • chain 30mm x 20mm x 5mm thick, the length of the main beam is 2.40 mtrs and No. 1 24800.00 25300.00 28400.00 24000.00 -263.00.00 *·Lowestheight 2.00mtrs. The 2 Nos of cost iron heads. Four footing are in 42mm pipes. All pipes are of lSI grade. All the pipes are painted with two coats of superset paint over a coat of protective Zinc chromate yellow oxide including fiXing the play equipments in CC 1:2:4, curing etc., complete with all lead, lift. loading. unloading and any other incidental charges and as per the drawing and specification and directionof the Engineerin chargeof the work**	nos	1.00	29040.00	0.00	0.00	1.00	29040.00	1.00	29040.00	

18	**Providing Children Play Merry-Go-Round Equipment: Made of MS. 'A' class pipes. Main pillars are in 100mm, fitted with shaft and two bearings and other cross members are in 25 & 20mm MA 'A' Class pipes, bottom ring is made out of 25mm 0 ring size is 1.20 mtrs Dia, fitted with four seats are in mental sats of 250 x 200 x 18SGE, handles are made out of 20mm NB pipes and other supports are in 25mm MS 'N class pipes. All the pipes are painted with two coats of super set paint over a coat of protective Zinc chromate yellow including fixing the play equipments in CC 1:2:4, curing etc., complete with all lead, lift, loading, unloading and any other incidental charges and as per the drawing and specification and direction of the EnQlneer In enarce of the work**	nos	2.00	30800.00	0.00	0.00	2.00	61600.00	2.00	61600.00	
19	**Providing Children Play Two Seater Swing Duck Equipment: This swing consist of 2 Nos. FRP Ducks supported by MS chains of Length 1.05mtrs, each duck Is suspended by 3 lines of chains. The chains are supported by circular housings with bearing from which the chain in suspended. The main beam is of 42mm MS 'A' class pipe. Size of MS chain 30mm x 20mm x 5mm thick, the length of the main beam is 2.40 mtrs and height 1.95mtrs. Four footing are in 42mm pipes. All pipes are of lSI grade. All the pipes are painted with two coats of super set paint over a coat 0 protective Zinc chromate yellow oxide including fixing the play equipments in CC 1:2:4, curing etc., complete with all lead, lift, loading, unloading and any other incidental charges and as per the drawing and specification and direction of the Enalneer in charae of the work.**	nos	1.00	33880.00	0.00	0.00	1.00	33880.00	1.00	33880.00	

20	**Providing Sitting chairs made of RCC including steel reinforcement as per the directions of the Engineer-in-charge of the work**	nos	10.00	7260.00	0.00	0.00	10.00	72600.00	10.00	72600.00	
21	**KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220 kgs with 40mm and down size graded granite metal coarse aggregates @ 0.892cum and fine aggregares @ 0.465 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. No. 12/ Item No. 4.2/ PWD SR 2015-16**	cum	0.94	5760.00	0.00	0.00	0.27	1555.20	0.27	1555.20	
22	**KSRB- 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300 kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.64 cum and fine aggregares @ 0.43 cum with superplastisiser @ 3lts confirming to IS9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2, No. 12/ Item No. 4.5/ PWD SR 2015-16**	Cum	1.26	6591.00	0.00	0.00	0.36	2372.76	0.36	2372.76	

23	**Supplying and fixing MS rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC 1:2:4 with 2 No. of 16mm dia MS hold fast rods each of length 25 cm, including ocst of all materials, cutting, bending, scaffolding wherever necessary, nicely finishing the welded joints with all leads and lifts and as per the directions of the Engineer in charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) (PWDSR 2015-16, P. 255, I. 37.2)**	m	126.00	1090.00	0.00	0.00	40.00	43600.00	40.00	43600.00	
24	**Providing and fixing MS block pipe of 38 mm dia of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (MS rectangular poles) and spot welding the chain link with MS block pipe including cost of all materials, wastage in cutting and scaffolding whereever necesssary with all lead and lift as directed by the Engineer in charge of the work and including providing 2 coats of approved quality paint over one coat of shop paint (PWDSR 2015-16, P. 255, I. 37.4)**	m	522.00	371.00	0.00	0.00	144.00	53424.00	144.00	53424.00	
25	**Providing chainlink fencking 50mm size of 8 guage properly stretched between existing rectangular poles andfixed with suitable bolts and nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts as per the direcdtions of the Engineer in charge of the work and including providing 2 coats of approved quality paint over one coat of shop paint (PWDSR 2015-16, P. 255, I. 37.3)**	m	261.00	767.00	0.00	0.00	96.00	73632.00	96.00	73632.00	

26	**KSRB 9.4-2 : Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making laster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications. (PWDSR 2015-16, P. 51, I. 9.11)**	cum	0.24	119671.00	0.24	29199.72	0.00	0.00	0.24	29199.72	
27	**Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 30mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) (PWDSR 2015-16, P. 52, I. 9.29)**	Sqm	4.09	4348.00	4.09	17783.32	0.00	0.00	4.09	17783.32	
28	**Providing and fixing in position fully panelled Honne wood fully panelled shutters for windows with styles and rails of 35mm. thick, 75mm wide in two halves with panels of 25mm thick including cost of cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) (PWDSR 2015-16, P. 54, I. 9.44)**	Sqm	6.24	5557.00	5.76	32008.32	0.00	0.00	5.76	32008.32	

29	**KSRB15-17 : Painting of wood surface KSRB 15-17.1 : Applying priming coat over new wood surface and / or wood based surface with white lead paint priming including preparing the surface after throughly cleaning oil, grease, dirt and foreign matter, sand papering and knotting ready mix paint including cost of materials, labour, complete as per specifications with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work. (PWDSR 2015-16, P-No: 117, Item No: 15.55)**	Sqm	14.43	36.00	14.43	519.48	0.00	0.00	14.43	519.48	
30	**Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work. (PWDSR 2015-16, P-No: 118, Item No: 15.60.1)**	Sqm	14.43	94.00	14.43	1356.42	0.00	0.00	14.43	1356.42	
31	**Dismantling weather proof course and removing and conveying the debris to a distance upto 200m (PWDSR 2015-16, P. 258, I. 37.44)**	Sqm	63.78	513.00	56.61	29040.93	0.00	0.00	56.61	29040.93	

32	**Providing and laying intergral cement based water proofing treatemetn including preparation of surface as required for treatment of roofs, balconies, terraces etc., consisting of following application. A. Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water proofing compound over the RCC slab after cleaning the surface brefore treatment. B. Laying cment concrete usign broken brick bats 25mm to 200mm size with 50% of cm 1:5 admixed with water proofing comund. C. proper curing. D. Finishing with 20mm thick joint less cm of mix 1:4, e. whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test including cost of materials, labour complete as per specifications. (PWDSR 2015-16, P. 66, I. 10.2)**	Sqm	63.78	1000.00	56.61	56610.00	0.00	0.00	56.61	56610.00	
33	**Providing and fixing on wall surface 2.5kg / sq.cm H.D.P.E. rain down water pipes 110mm outer dia approved make and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, curing complete as per specifications. (PWDSR 2015-16, P. 47, I. 8.17)**	Rm	8.40	556.00	8.40	4670.40	0.00	0.00	8.40	4670.40	

38	**KSRB 4.9.1: Providing mild steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Page No. 17 / Item No. 4.45 / PWD SR 2015-16**	Qtl	Upto 125%	14.28	5000.00	96.52	673600.76	0.00	0.00	96.52	673600.76	
			Above 125%	93.84	7322.48			0.00	0.00			
39	**KSRB 4.6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 15 / Item No. 4.31/ PWD SR 2015-16**	Sqm	Upto 125%	93.38	331.00	805.66	277457.38	0.00	0.00	805.66	277457.38	
			Above 125%	786.99	346.14			0.00	0.00			
40	**Dismantling plastering and removing the debris with a lead upto 200m including cost of materials, labour, HOM of machineries complete as per specifications. (PWDSR 2015-16, P. 258, I. 37.50)**	Sqm	346.90		25.00	278.01	6950.25	0.00	0.00	278.01	6950.25	
41	**KSRB 15.3.13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. Page No. 113 / Item No. 15.21 / PWD SR -2015-16**	Sqm	55.80		213.00	46.00	9798.00	0.00	0.00	46.00	9798.00	

42	**KSRB 15.3.11 :Providing 20mm thick cement plaster in single coat with cement mortar 1:4, to stone masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. Page No. 113 / Item No. 15.19 / PWD SR 2015-16 (Inside wall)**	Sqm	103.67	258.00	84.24	21733.92	0.00	0.00	84.24	21733.92	
43	**KSRB 15-7 : Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications. (P. 114 / I. 15.33 PWD SR - 2015-16).**	Sqm	159.47	27.00	130.20	3515.40	0.00	0.00	130.20	3515.40	
44	**KSRB 15.3.9: Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications Page No. 113 / Item No. 15.17 / PWD SR 2015-16 (Out side Wall)**	Sqm	178.68	219.00	142.02	31102.38	0.00	0.00	142.02	31102.38	
45	**KSRB 15-14.1 : Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after thoroughly brooming the surface free from mortar drops and other foregin matter including preparing the surface even and sand paper smooth, cost of materials, labours, complete as per specifications PWD SR 2015-16 (P.116 /I. 15.49.1)**	Sqm	159.47	76.00	130.20	9895.20	0.00	0.00	130.20	9895.20	
46	**KSRB 15-16.1: providing and finishing external walls in tow coats with water proof cement paint of approve brand and shade to give an even shade after thourghly brooming the surface to remove all dirt and losse powdered material, free from mortar dops and other foreign matter cost of materials, labours, complete as per specifications PWD SR 2015-16 (P. 117 / I. 15.53.2) with Primer**	Sqm	178.68	92.00	142.02	92.6. 13065.84	0.00	0.00	142.02	13065.84	

47	**KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications. Page No. 120 / Item No. 15.74 / PWD SR 2015-16**	Sqm	439.68	92.00	142.02	13065.84	0.00	0.00	142.02	13065.84	
48	**KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2015-16**	Cum	79.52	6817.00	65.03	443309.51	0.00	0.00	65.03	443309.51	

50	**KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180 kgs with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. No. 12/ Item No. 4.3/ PWD SR 2015-16**	Cum	178.84 8.75	5577.00	170.38	950209.26	6.21	34633.17	176.59	984842.43	
51	**Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cst of generator, HOM of machinery screed vibaratory, power floater, blade and disc etc., with all leads and lift. (P171, It No. 22.7)**	sqm	646.04 178.84	106.00	645.45	68417.70	0.00	0.00	645.45	68417.70	
53	**Providing and fixing 10cms thick pre cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed concrette laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing complete as per specfications (Data Rate Approved)**	sqm	1261.20	1760.00	1089.00	1916640.00	121.50	213840.00	1210.50	2130480.00	
54	**Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T & P and scaffolding wherever necessary, sorting the dismantled material, disposal of unservicea ble material and stacking the serviceable material with all lifts complete as per specifications.- Rubble stone masonry in cement mortar (PWDSR 2015-16, I. 18.27, P. 137)**	cum	162.00	275.00	162.00	44550.00	0.00	0.00	162.00	44550.00	

55	**Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T & P and scaffolding wherever necessary, sorting the dismantled material, disposal of unservicea ble material and stacking the serviceable material with all lifts complete as per specifications. - RCC grade M20 and above (PWDSR 2015-16, I. 18.19, P. 137)**	cum	52.50		1146.00	52.50	60165.00	0.00	0.00	52.50	60165.00	
56	**Providing and constructing precast concrete solid blocks with compressive strength not less than 3.5 N/sqmm with CM 1:4 masonry with solid concrete blocks of size 40x20x20 cm conforming to IS 2185 / 1965 in superstructure including cost of all materials, labour charges, scaffolding, curing complete as per specifications**	Sqm	80.00		1120.00	0.00	0.00	72.00	80640.00	72.00	80640.00	
57	**KSRB 5.3-1:Providing and constructing granite /trap/basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20cms hign, bond stones at two m apart in each course including cost of materials, labour, curing etc., complete as per specifications.(P-235. Item No. 5.3) Available stone**	Cum	97.20		4237.00	71.10	301250.70	0.00	0.00	71.10	301250.70	
58	**New stone**	Cum	Upto 125%	72.44	5675.00	209.20	1286008.16	0.00	0.00	221.98	1367767.19	
			Above 125%	149.54	6397.42			12.78	81759.03			

59	**KSRB 15.1.4: Providing ruled pointing to coursed stone masonry with cement mortar 1:4, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications cement mortar 1:4. Page No. 112 / Item No. 15.4 / PWD SR 2015-16**	sqm	634.76		106.00	622.80	66016.80	0.00	0.00	622.80	66016.80	
60	**KSRB 4-1.6 : Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. No. 12/ Item No. 4.6/ PWD SR 2015-16**	cum	Upto 125%	72.71	6039.00	71.28	430459.92	1.43	8635.77	78.03	474374.90	
			Above 125%	11.50	6631.43			5.32	35279.21			
63	**Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 of size 450x200x400 mm and finished with CM 1:3 plastering and finishing cutting etc., complete. Page No. 25 / Item No. 5.29.1 / PWD SR 2015-16**	nos	Upto 125%	1990.00	411.00	2222.00	920814.48	0.00	0.00	2522.00	1053906.48	
			Above 125%	632.00	443.64			300.00	133092.00			

64	**Providing and applying ready mix priming coat over ocncrete / masonry, / asbestos cement sheet / plastered surfaces includding preparing the surface after thorougly cleaning of oil, grease, dirt and other foreign matter and sand papering including cost of materials, labour compelte as per specifications. Page No. 121 / Item No. 15.80 / PWD SR 2015-16**	Sqm	413.00	29.00	350.00	10150.00	0.00	0.00	350.00	10150.00	
65	**Providing and applying spray painting in two coats (excluding priming coat) over ocncrete / masonry, / asbestos cement sheet / plastered surfaces includding preparing the surface after thorougly cleaning of oil, grease, dirt and other foreign matter and sand papering including cost of materials, labour compelte as per specifications. Page No. 121 / Item No. 15.81 / PWD SR 2015-16**	Sqm	413.00	74.00	350.00	25900.00	0.00	0.00	350.00	25900.00	
E-1	**KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803.(P.No.185, I.No.24.15 of PW,P&IWTD SR 2015-16)**	Sqm	1475.44	624.02	447.80	279436.16	405.22	252865.38	853.02	532301.54	

E-2	**KSRRB M400-6.1: Construction of Granular Sub Base by providing close graded Crushed stone aggragate granite /trap/basalt materials, mixing in a mechanical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications A. Plant Mix Method Gor Grading II Material Page No. 154 / Item No. 20.4.2 / PWD SR 2015-16**	cum	1717.04	1914.72	1594.71	3053423.13	121.05	231776.86	1715.76	3285199.99	
E-3	**Cement concrete pavement. Construction of un-reinfirced plain cement concrete pavement, thickness as per deisgn, over a prepraed sub base with OPC cement or any other type as per clause 1051..2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregates ,with superplastiser @ 3lts confirming to IS9103-1999 REAFFIRMED-2008, Mixed in a concrete mixer of not less than 0.6 cum capacity and approximate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates inlcuding levelling the form work as per drawing) and spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continous operation including, provision of contraction, expansion, construction operation including longitudinal joints, including groove cutting charges joint filler, sparation menebrane, sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specfication.M20 (AT 300 Kg per cum coarse aggregats @ 0.69cum and fine aggregate @0.43cum) (Pg No 174, It No 22.6.1)**	cum	64.60	7149.41	64.55	461494.42	0.00	0.00	64.55	461494.42	

E-4	**Providing and fixing 20 cm thick pre cast RCC covering slab using reinforced cement concrete M 20 mix with stone aggregate 20 mm and down size including centring shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing comlete as per specification (Data Rate)**	sqm	137.70	5876.63	83.16	488700.55	43.20	253870.42	126.36	742570.97	
E-5	**Providing and fixing MS Grating 260x260 mm(Page No.VIII, Sl No.237, code No.0771)**	nos	90.00	102.33	70.00	7163.10	0.00	0.00	70.00	7163.10	
E-6	**KSRB 4.2.7 : Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintles and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, ,pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1.**	Cum	43.54	7760.02	43.54	337871.27	0.00	0.00	43.54	337871.27	
	Grand Total					**56266098.37**		**3099332.77**		**59365431.14**	

(Rupees thirty lakhs ninty nine thousand three hundred and thirty two rupees and seventy seven paise only)

Rs 5,62,53,836-00 — 5,93,53,168-

Certificate:

1 **Certified that the contractor has done the work satisfactorly**
2 **Certified that the debris has been removed from the site**
3 **Certified that the above item of the work were not claimed in any other bill**

For RBI-TECHNICAL SERVICES

Proprietor

AE(M)

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.